

5.2 Job Posting for Researcher at **Robotnik**.

Robotnik Automation S.L.: Ronda Auguste y Louis Lumière, 8, 46980 Parque Tecnológico, Paterna, Valencia, Spain

Eligible sending organisations

AUTH, JSI, ULUS

Role title

Robotics Systems Integration Engineer - Interoperability & Multi-Robot Applications

Environment

This role has a strong **R&D and system-integration focus**. The secondee will work on **connecting Robotnik mobile robots** and **mobile manipulators** with **external software, devices or infrastructure** used in industrial and research applications. Activities may involve fleet managers, enterprise systems, sensors, PLCs, cloud/edge services or other robotic platforms, combining prototyping, interoperability and real-world validation.

What you will work on

The secondee will:

- Analyse the architecture, interfaces and APIs of Robotnik platforms and external systems to define integration approaches.
- Develop software connectors and communication interfaces between robots and third-party systems such as fleet managers, WMS/MES, PLCs, sensors or cloud/edge services.
- Configure and validate system-level workflows involving one or multiple robots in simulation and on real platforms.
- Troubleshoot integration and interoperability issues in collaboration with Robotnik teams and, where relevant, external technology providers.

- Participate in team meetings and stand-ups and undertake independent tasks with clear objectives, supported by members of the RBTK team.

What you will gain

- The secondee will gain practical experience in the system-level integration of mobile robots and mobile manipulators with heterogeneous industrial and digital ecosystems. They will develop expertise in interoperability, APIs and communication protocols, and understand how robotic solutions are deployed, validated and scaled beyond isolated laboratory prototypes.
- The secondee will also benefit from job shadowing, cross-functional collaboration and networking opportunities, and, where relevant, participation in training or knowledge-sharing activities such as internal demos or presentations.

Desired profile

- **Programming experience in Python and/or C++.** Software development is commonly required to prototype connectors, interfaces and integration logic.
- **Familiarity with network or industrial communication technologies (e.g., REST APIs, WebSockets, MQTT, TCP/IP or similar).** System integration relies on reliable data exchange between heterogeneous components.
- **Background in robotics, autonomous systems or a related software field; familiarity with ROS/ROS 2 is desirable.** The position benefits from robotics knowledge while remaining open to candidates with strong integration expertise from adjacent domains.

Duration & Flexibility

3 to 5 months (continuous stay) between May and November 2027